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Attorney Docket No. MYCOLOGX-04875

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In re Application of: Claude P. Selitrennikoff *et al.*

Serial No.: 09/866,209

Group No.: 1645

Filed: 5/25/2001

Examiner: to be assigned

Entitled: **Methods For The Identification of Antimicrobial Compounds**

**INFORMATION DISCLOSURE
STATEMENT TRANSMITTAL**

Assistant Commissioner for Patents
Washington, D.C. 20231

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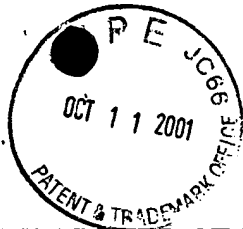
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The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- Anaissie, "Opportunistic mycoses in the immunocompromised host: experience at a cancer center and review," *Clin. Infect. Dis.*, 14(Suppl 1):S43-S53 [1992];
- Ausubel *et al.* (eds.), *Current Protocols in Molecular Biology*, Volumes 1-4, (New York: John Wiley & Sons, Inc.) [1994] title and copyright pages supplied;
- Badet *et al.*, "Glucosamine synthetase from *Escherichia coli*: Purification, properties, and glutamine-utilizing site location," *Biochemistry* 26:1940-1948 [1987];

- Beck-Sague *et al.*, "Secular trends in the epidemiology of nosocomial fungal infections in the United States, 1980-1990," *J. Infect. Dis.*, 167:1247-1251 [1993];
 - Borgia, "Roles of the *orlA*, *tsE*, and *bimG* genes of *Aspergillus nidulans* in chitin synthesis," *J. Bacteriol.*, 174:384-389 [1992];
 - Boschman *et al.*, "Thirteen-year evolution of azole resistance in yeast isolates and prevalence of resistant strains carried by cancer patients at a large medical center," *Antimicrob. Agents Chemother.*, 42:734-738 [1998];
 - Boshart *et al.*, "A very strong enhancer is located upstream of an immediate early gene of human cytomegalovirus," *Cell* 41:521-530 [1985];
 - Bow, "Invasive fungal infections in patients receiving intensive cytotoxic therapy for cancer," *Br. J. Haematol.*, 101(Suppl 1):1-4 [1998];
 - Brooks *et al.*, (ed.), *Jawetz, Melnick & Adelberg's Medical Microbiology*, 19th edition, (Norwalk, CT: Appleton & Lange) p. 150 [1991];
-
- Bulawa, "Genetics and molecular biology of chitin synthesis in fungi," *Annu. Rev. Microbiol.*, 47:505-534 [1993];
 - Cohen *et al.*, "Nonchromosomal antibiotic resistance in bacteria: genetic transformation of *Escherichia coli* by R-factor DNA," *Proc. Natl. Acad. Sci. USA* 69:2110-2114 [1972];
 - Cole, "Basic biology of fungi," In Baron (ed.) *Medical Microbiology*, 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 903-911 [1996];
 - Daniels *et al.*, "Glutamine:fructose-6-phosphate amidotransferase activity in cultured human skeletal muscle cells," *J. Clinical Invest.*, 97(5):1235-1241 [1996];
 - Decker *et al.*, "Structure-activity relationships of the nikkomycins," *J. Gen. Microbiol.*, 137:1805-1813 [1991];
 - Denning *et al.*, "Pulmonary aspergillosis in the acquired immunodeficiency syndrome," *New Eng. J. Med.*, 324:654-662 [1992];
 - Dijkema *et al.*, "Cloning and expression of the chromosomal immune interferon gene of the rat," *EMBO J.*, 4:761-767 [1985];

- Dixon and Walsh, "Antifungal Agents," In Baron (ed.) *Medical Microbiology*, 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 926-932 [1996];
- Endo *et al.*, "Feedback inhibition of L-glutamine D-fructose 6-phosphate amidotransferase by uridine diphosphate N-acetylglucosamine in *Neurospora crassa*," *J. Bacteriol.*, 103:588-594 [1970];
- Espinel-Ingroff *et al.*, "Antifungal agents and susceptibility tests," in Murray *et al.*, (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1640-1652 [1999];
- Etchebehere and Da Costa Maia, "Phosphorylation-dependent regulation of amidotransferase during development of *Blastocladiella emersonii*," *Arch. Biochem. Biophys.*, 272:301-310 [1989];
- Etchebehere *et al.*, "Development regulation of hexosamine biosynthesis by protein phosphatases 2A and 2C in *Blastocladiella emersonii*," *J. Bacteriol.*, 175:5022-5027 [1993];
- Ferraro and Jorgensen, "Susceptibility testing instrumentation and computerized expert systems for data analysis and interpretation," In Murray *et al.*, (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1593-1600 [1999];
- Goodwin *et al.*, "A nationwide survey of clinical laboratory methodologies for fungal infections," *J. Med. Vet. Mycol.*, 30:153-160 [1992];
- Gorman *et al.*, "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," *Proc. Natl. Acad. Sci. USA* 79:6777-6781 [1982];
- Graham and van der Eb, "A new technique for the assay of infectivity of human adenovirus 5 DNA," *Viol.*, 52:456-467 [1973];
- Graybill, "The future of antifungal therapy," *Clin. Infect. Dis.*, 22(Suppl 2):S166-S178 [1996];
- Hanahan, "Studies on transformation of *Escherichia coli* with plasmids," *J. Mol. Biol.*, 166:557-580 [1983];

- Hanson *et al.*, "Synergy between cilofungin and amphotericin B in a murine model of candidiasis," *Antimicrob. Agents Chemother.*, 35:1334-1337 [1991];
- Inderlied and Salfinger, "Antimycobacterial agents and susceptibility tests," In Murray *et al.*, (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1601-1623 [1999];
- Jorgensen *et al.*, "Antibacterial susceptibility tests: dilution and disk diffusion methods," In Murray *et al.* (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1526-1543 [1999];
- Katz and Rosenberger, "A mutation in *Aspergillus nidulans* producing hyphal walls which lack chitin," *Biochim. Biophys. Acta.*, 208:452-460 [1970];
- Kim *et al.*, "Use of the human elongation factor 1 α promoter as a versatile and efficient expression system," *Gene* 91:217-223 [1990];
- Kornfeld, "Studies on L-glutamine, D-fructose 6-phosphate amidotransferase," *J. Biol. Chem.*, 242:3135-3141 [1967];

- Leloir and Cardini, "The biosynthesis of glucosamine," *Biochim. Biophys. Acta.*, 12:15-22 [1953];
- Lortholary *et al.*, "Invasive aspergillosis in patients with acquired immunodeficiency syndrome: report of 33 cases," *Amer. J. Med.*, 95:177-187 [1993];
- Maniatis *et al.*, "Regulation of inducible and tissue-specific gene expression," *Science* 236:1237-1244 [1987];
- McGinnis and Tying, "Introduction to Mycology," In Baron (ed.), *Medical Microbiology*, 4th edition, (Galveston TX: University of Texas Medical Branch) pp. 893-902 [1996];
- McKnight *et al.*, "Molecular cloning, cDNA sequence, and bacterial expression of human glutamine:fructose-6-phosphate amidotransferase," *J. Biol. Chem.*, 267:25208-25212 [1992];
- Mellado *et al.*, "A multigene family related to chitin synthase genes of yeast in the opportunistic pathogen *Aspergillus fumigatus*," *Mol. Gen. Genet.*, 246:353-359 [1995];

- Meunier, *et al.*, "Candidemia in immunocompromised patients," *Clin. Infect. Dis.*, 14(Suppl 1):S120-S125 [1992];
- Milewski *et al.*, "Antifungal peptides with novel specific inhibitors of glucosamine 6-phosphate synthase," *Drugs Exp. Clin. Res.*, 14:461-465 [1988];
- Milewski *et al.*, "Mechanism of action of anticandidal dipeptides containing inhibitors of glucosamine-6-phosphate synthase," *Antimicrob. Agents Chemo.*, 35:36-43 [1991];
- Milewski *et al.*, "Oligomeric structure and regulation of *Candida albicans* glucosamine-6-phosphate synthase," *J. Biol. Chem.*, 274(7):4000-4008 [1999];
- Miller *et al.*, "Pulmonary aspergillosis in patients with AIDS," *Chest* 105:37-44 [1994];
- Mitchell, "Opportunistic mycoses," In Joklik *et al.* [eds], *Zinsser Microbiology*, (Norwalk, CT: Appleton, Century-Crofts) pp. 1183-1197 [1984];
- Mizushima and Nagata, "pEF-BOS, a powerful mammalian expression vector," *Nuc. Acids. Res.*, 18:5322 [1990];
- National Committee for Clinical Laboratory Standards (NCCLS), "Reference Method for Broth Dilution Susceptibility Testing of Yeasts: Tentative Standard," Publication M27-T [1995];
- Polis and Kovacs, "Fungal Infections in Patients with the Acquired Immunodeficiency Syndrome," in DeVita *et al.* (eds), AIDS: Biology, Diagnosis, Treatment, and Prevention, 4th ed., (Philadelphia, PA: Lippincott-Raven Publishers) pp. 231-244 [1997];
- Russell and Srb, "A study of L-glutamine:D-fructose 6-phosphate amidotransferase in certain developmental mutants of *Neurospora crassa*," *Molec. Gen. Genet.*, 129:77-86 [1974];
- Sambrook *et al.* (eds.), *Molecular Cloning: A Laboratory Manual*, 2nd edition, Volumes 1-3, (NY: Cold Spring Harbor Laboratory Press) [1989] title and copyright pages supplied;
- Selitrennikoff and Ostroff, "Emerging therapeutic cell wall targets in fungal infections," *Emerging Therapeutic Targets* 3:53-72 [1999];

- Selitrennikoff and Sonneborn, "Post-translational control of *de Novo* cell wall formation during *Blastocladiella emersonii* zoospore germination," *Develop. Biol.*, 54:37-51 [1976];
- Selitrennikoff and Sonneborn, "The last two pathway-specific enzyme activities of hexosamine biosynthesis are present in *Blastocladiella emersonii* zoospores prior to germination," *Biochim. Biophys. Acta.*, 451:408-416 [1976];
- Selitrennikoff *et al.*, "Regulation of the hexosamine biosynthetic pathway in the water mold *Blastocladiella emersonii*: sensitivity to endproduct inhibition is dependent upon the life cycle phase," *Proc. Natl. Acad. Sci. USA* 77:5998-6002 [1980];
- Sessegolo *et al.*, "Distribution of serotypes and antimicrobial resistance of *Streptococcus pneumoniae* strains isolated in Brazil from 1988 to 1992," *J. Clin. Microbiol.*, 32:906-911 [1994];
- Sigler and Kennedy, "*Aspergillus*, *Fusarium*, and other opportunistic moniliaceous fungi," In Murray *et al.* (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington DC: ASM Press) pp. 1213-1241 [1999];
- Smith *et al.*, "Isolation and characterization of the *GFAI* gene encoding the glutamine:fructose-6-phosphate amidotransferase of *Candida albicans*," *J. Bacteriol.*, 178:2320-2327 [1996];
- Tenover and McGowan, "Reasons for the emergence of antibiotic resistance," *Am. J. Med. Sci.*, 311:9-16 [1996];
- Tokumura and Horie, "Kinetics of nikkomycin Z degradation in aqueous solution and in plasma," *Biol. Pharm. Bull.*, 20:577-580 [1997];
- Turnidge and Jorgensen, "Antimicrobial susceptibility testings: general considerations," In Murray *et al.* (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1469-1473 [1999];
- Uetsuki *et al.*, "Isolation and characterization of the human chromosomal gene for polypeptide chain elongation factor-1 α ," *J. Biol. Chem.*, 264:5791-5798 [1989];

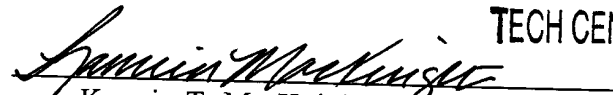
- Van Noorden and Butcher, "The involvement of superoxide anions in the nitro blue tetrazolium chloride reduction mediated by NADH and phenazine methosulfate," *Anal. Biochem.*, 176:170-174 [1989];
 - Voss *et al.*, "The role of enhancers in the regulation of cell-type-specific transcriptional control," *Trends Biochem. Sci.*, 11:287-289 [1986];
 - Walsh and Dixon, "Spectrum of mycoses," In Baron (ed.), *Medical Microbiology*, 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 919-925 [1996];
 - Warnock, "Fungal infections in neutropenia: current problems and chemotherapeutic control," *J. Antimicrob. Chemother.*, 41:95-105 [1998];
 - Warren and Hazen, "*Candida*, *Cryptococcus*, and other yeasts of medical importance," In Murray *et al.* (eds.), *Manual of Clinical Microbiology*, 7th edition, (Washington, DC: ASM Press) pp. 1184-1199 [1999];
 - Watzele and Tanner, "Cloning of the glutamine:fructose-6-phosphate amidotransferase gene from yeast," *J. Biol. Chem.*, 264:8753-8758 [1989];
 - White, "Antifungal drug resistance in *Candida albicans*," *ASM News* 63:427-433 [1997];
 - White *et al.*, "Clinical, cellular, and molecular factors that contribute to antifungal drug resistance," *Clin. Microbiol. Rev.*, 11:382-402 [1998];
 - Winterburn and Phelps, "Purification and some kinetic properties of rat liver glucosamine synthetase," *Biochem. J.*, 121:701-709 [1971]; and
 - Zalkin, "Glucosamine-6-phosphate synthase," *Methods Enzymol.*, 113:278-281 [1985].
-

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

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Applicant: Claude P. Selitrennikoff *et al.*

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Group Art Unit: 1645

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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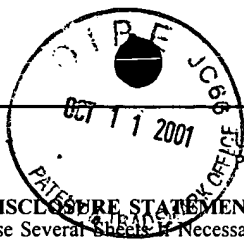
	1	Anaissie, "Opportunistic mycoses in the immunocompromised host: experience at a cancer center and review," <i>Clin. Infect. Dis.</i> , 14(Suppl 1):S43-S53 [1992]
	2	Ausubel <i>et al.</i> (eds.), <i>Current Protocols in Molecular Biology</i> , Volumes 1-4, (New York: John Wiley & Sons, Inc.) [1994] title and copyright pages supplied
	3	Badet <i>et al.</i> , "Glucosamine synthetase from <i>Escherichia coli</i> : Purification, properties, and glutamine-utilizing site location," <i>Biochemistry</i> 26:1940-1948 [1987]
	4	Beck-Sague <i>et al.</i> , "Secular trends in the epidemiology of nosocomial fungal infections in the United States, 1980-1990," <i>J. Infect. Dis.</i> , 167:1247-1251 [1993]
	5	Borgia, "Roles of the <i>orlA</i> , <i>tsE</i> , and <i>bimG</i> genes of <i>Aspergillus nidulans</i> in chitin synthesis," <i>J. Bacteriol.</i> , 174:384-389 [1992]
	6	Boschman <i>et al.</i> , "Thirteen-year evolution of azole resistance in yeast isolates and prevalence of resistant strains carried by cancer patients at a large medical center," <i>Antimicrob. Agents Chemother.</i> , 42:734-738 [1998]
	7	Boshart <i>et al.</i> , "A very strong enhancer is located upstream of an immediate early gene of human cytomegalovirus," <i>Cell</i> 41:521-530 [1985]
	8	Bow, "Invasive fungal infections in patients receiving intensive cytotoxic therapy for cancer," <i>Br. J. Haematol.</i> , 101(Suppl 1):1-4 [1998]
	9	Brooks <i>et al.</i> (ed.), <i>Jawetz, Melnick & Adelberg's Medical Microbiology</i> , 19th edition, (Norwalk, CT: Appleton & Lange) p. 150 [1991]
	10	Bulawa, "Genetics and molecular biology of chitin synthesis in fungi," <i>Annu. Rev. Microbiol.</i> , 47:505-534 [1993]
	11	Cohen <i>et al.</i> , "Nonchromosomal antibiotic resistance in bacteria: genetic transformation of <i>Escherichia coli</i> by R-factor DNA," <i>Proc. Natl. Acad. Sci. USA</i> 69:2110-2114 [1972]
	12	Cole, "Basic biology of fungi," In Baron (ed.) <i>Medical Microbiology</i> , 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 903-911 [1996]
	13	Daniels <i>et al.</i> , "Glutamine:fructose-6-phosphate amidotransferase activity in cultured human skeletal muscle cells," <i>J. Clinical Invest.</i> , 97(5):1235-1241 [1996]
	14	Decker <i>et al.</i> , "Structure-activity relationships of the nikkomycins," <i>J. Gen. Microbiol.</i> , 137:1805-1813 [1991]
	15	Denning <i>et al.</i> , "Pulmonary aspergillosis in the acquired immunodeficiency syndrome," <i>New Eng. J. Med.</i> , 324:654-662 [1992]
	16	Dijkema <i>et al.</i> , "Cloning and expression of the chromosomal immune interferon gene of the rat," <i>EMBO J.</i> , 4:761-767 [1985]
	17	Dixon and Walsh, "Antifungal Agents," In Baron (ed.) <i>Medical Microbiology</i> , 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 926-932 [1996]
	18	Endo <i>et al.</i> , "Feedback inhibition of L-glutamine D-fructose 6-phosphate amidotransferase by uridine diphosphate N-acetylglucosamine in <i>Neurospora crassa</i> ," <i>J. Bacteriol.</i> , 103:588-594 [1970]
	19	Espinel-Ingroff <i>et al.</i> , "Antifungal agents and susceptibility tests," in Murray <i>et al.</i> , (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1640-1652 [1999]
	20	Etchebehere and Da Costa Maia, "Phosphorylation-dependent regulation of amidotransferase during development of <i>Blastocladiella emersonii</i> ," <i>Arch. Biochem. Biophys.</i> , 272:301-310 [1989]
	21	Etchebehere <i>et al.</i> , "Development regulation of hexosamine biosynthesis by protein phosphatases 2A and 2C in <i>Blastocladiella emersonii</i> ," <i>J. Bacteriol.</i> , 175:5022-5027 [1993]

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

- | | |
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| 22 | Ferraro and Jorgensen, "Susceptibility testing instrumentation and computerized expert systems for data analysis and interpretation," In Murray <i>et al.</i> , (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1593-1600 [1999] |
| 23 | Goodwin <i>et al.</i> , "A nationwide survey of clinical laboratory methodologies for fungal infections," <i>J. Med. Vet. Mycol.</i> , 30:153-160 [1992] |
| 24 | Gorman <i>et al.</i> , "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," <i>Proc. Natl. Acad. Sci. USA</i> 79:6777-6781 [1982] |
| 25 | Graham and van der Eb, "A new technique for the assay of infectivity of human adenovirus 5 DNA," <i>Virol.</i> , 52:456-467 [1973] |
| 26 | Graybill, "The future of antifungal therapy," <i>Clin. Infect. Dis.</i> , 22(Suppl 2):S166-S178 [1996] |
| 27 | Hanahan, "Studies on transformation of <i>Escherichia coli</i> with plasmids," <i>J. Mol. Biol.</i> , 166:557-580 [1983] |
| 28 | Hanson <i>et al.</i> , "Synergy between cilofungin and amphotericin B in a murine model of candidiasis," <i>Antimicrob. Agents Chemother.</i> , 35:1334-1337 [1991] |
| 29 | Inderlied and Salfinger, "Antimycobacterial agents and susceptibility tests," In Murray <i>et al.</i> , (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1601-1623 [1999] |
| 30 | Jorgensen <i>et al.</i> , "Antibacterial susceptibility tests: dilution and disk diffusion methods," In Murray <i>et al.</i> (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1526-1543 [1999] |
| 31 | Katz and Rosenberger, "A mutation in <i>Aspergillus nidulans</i> producing hyphal walls which lack chitin," <i>Biochim. Biophys. Acta.</i> , 208:452-460 [1970] |
| 32 | Kim <i>et al.</i> , "Use of the human elongation factor 1 α promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223 [1990] |
| 33 | Kornfeld, "Studies on L-glutamine, D-fructose 6-phosphate amidotransferase," <i>J. Biol. Chem.</i> , 242:3135-3141 [1967] |
| 34 | Leloir and Cardini, "The biosynthesis of glucosamine," <i>Biochim. Biophys. Acta.</i> , 12:15-22 [1953] |
| 35 | Lortholary <i>et al.</i> , "Invasive aspergillosis in patients with acquired immunodeficiency syndrome: report of 33 cases," <i>Amer. J. Med.</i> , 95:177-187 [1993] |
| 36 | Maniatis <i>et al.</i> , "Regulation of inducible and tissue-specific gene expression," <i>Science</i> 236:1237-1244 [1987] |
| 37 | McGinnis and Tyring, "Introduction to Mycology," In Baron (ed.), <i>Medical Microbiology</i> , 4th edition, (Galveston TX: University of Texas Medical Branch) pp. 893-902 [1996] |
| 38 | McKnight <i>et al.</i> , "Molecular cloning, cDNA sequence, and bacterial expression of human glutamine:fructose-6-phosphate amidotransferase," <i>J. Biol. Chem.</i> , 267:25208-25212 [1992] |
| 39 | Mellado <i>et al.</i> , "A multigene family related to chitin synthase genes of yeast in the opportunistic pathogen <i>Aspergillus fumigatus</i> ," <i>Mol. Gen. Genet.</i> , 246:353-359 [1995] |
| 40 | Meunier, <i>et al.</i> , "Candidemia in immunocompromised patients," <i>Clin. Infect. Dis.</i> , 14(Suppl 1):S120-S125 [1992] |
| 41 | Milewski <i>et al.</i> , "Antifungal peptides with novel specific inhibitors of glucosamine 6-phosphate synthase," <i>Drugs Exp. Clin. Res.</i> , 14:461-465 [1988] |
| 42 | Milewski <i>et al.</i> , "Mechanism of action of anticandidal dipeptides containing inhibitors of glucosamine-6-phosphate synthase," <i>Antimicrob. Agents Chemo.</i> , 35:36-43 [1991] |
| 43 | Milewski <i>et al.</i> , "Oligomeric structure and regulation of <i>Candida albicans</i> glucosamine-6-phosphate synthase," <i>J. Biol. Chem.</i> , 274(7):4000-4008 [1999] |
| 44 | Miller <i>et al.</i> , "Pulmonary aspergillosis in patients with AIDS," <i>Chest</i> 105:37-44 [1994] |
| 45 | Mitchell, "Opportunistic mycoses," In Joklik <i>et al.</i> [eds], <i>Zinsser Microbiology</i> , (Norwalk, CT: Appleton, Century-Crofts) pp. 1183-1197 [1984] |
| 46 | Mizushima and Nagata, "pEF-BOS, a powerful mammalian expression vector," <i>Nuc. Acids. Res.</i> , 18:5322 [1990] |
| 47 | National Committee for Clinical Laboratory Standards (NCCLS), "Reference Method for Broth Dilution Susceptibility Testing of Yeasts: Tentative Standard," Publication M27-T [1995] |
| 48 | Polis and Kovacs, "Fungal Infections in Patients with the Acquired Immunodeficiency Syndrome," in DeVita <i>et al.</i> (eds), <i>AIDS: Biology, Diagnosis, Treatment, and Prevention</i> , 4th ed., (Philadelphia, PA: Lippincott-Raven Publishers) pp. 231-244 [1997] |

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Applicant: Claude P. Selitrennikoff *et al.*

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

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| 49 | Russell and Srb, "A study of L-glutamine:D-fructose 6-phosphate amidotransferase in certain developmental mutants of <i>Neurospora crassa</i> ," <i>Molec. Gen. Genet.</i> , 129:77-86 [1974] |
| 50 | Sambrook <i>et al.</i> (eds.), <i>Molecular Cloning: A Laboratory Manual</i> , 2nd edition, Volumes 1-3, (NY: Cold Spring Harbor Laboratory Press) [1989] title and copyright pages supplied |
| 51 | Selitrennikoff and Ostroff, "Emerging therapeutic cell wall targets in fungal infections," <i>Emerging Therapeutic Targets</i> 3:53-72 [1999] |
| 52 | Selitrennikoff and Sonneborn, "Post-translational control of <i>de Novo</i> cell wall formation during <i>Blastocladiella emersonii</i> zoospore germination," <i>Develop. Biol.</i> , 54:37-51 [1976] |
| 53 | Selitrennikoff and Sonneborn, "The last two pathway-specific enzyme activities of hexosamine biosynthesis are present in <i>Blastocladiella emersonii</i> zoospores prior to germination," <i>Biochim. Biophys. Acta.</i> , 451:408-416 [1976] |
| 54 | Selitrennikoff <i>et al.</i> , "Regulation of the hexosamine biosynthetic pathway in the water mold <i>Blastocladiella emersonii</i> : sensitivity to endproduct inhibition is dependent upon the life cycle phase," <i>Proc. Natl. Acad. Sci. USA</i> 77:5998-6002 [1980] |
| 55 | Sessegolo <i>et al.</i> , "Distribution of serotypes and antimicrobial resistance of <i>Streptococcus pneumoniae</i> strains isolated in Brazil from 1988 to 1992," <i>J. Clin. Microbiol.</i> , 32:906-911 [1994] |
| 56 | Sigler and Kennedy, " <i>Aspergillus</i> , <i>Fusarium</i> , and other opportunistic moniliaceous fungi," In Murray <i>et al.</i> (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington DC: ASM Press) pp. 1213-1241 [1999] |
| 57 | Smith <i>et al.</i> , "Isolation and characterization of the <i>GFAI</i> gene encoding the glutamine:fructose-6-phosphate amidotransferase of <i>Candida albicans</i> ," <i>J. Bacteriol.</i> , 178:2320-2327 [1996] |
| 58 | Tenover and McGowan, "Reasons for the emergence of antibiotic resistance," <i>Am. J. Med. Sci.</i> , 311:9-16 [1996] |
| 59 | Tokumura and Horie, "Kinetics of nikkomycin Z degradation in aqueous solution and in plasma," <i>Biol. Pharm. Bull.</i> , 20:577-580 [1997] |
| 60 | Turnidge and Jorgensen, "Antimicrobial susceptibility testings: general considerations," In Murray <i>et al.</i> (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1469-1473 [1999] |
| 61 | Uetsuki <i>et al.</i> , "Isolation and characterization of the human chromosomal gene for polypeptide chain elongation factor-1 α ," <i>J. Biol. Chem.</i> , 264:5791-5798 [1989] |
| 62 | Van Noorden and Butcher, "The involvement of superoxide anions in the nitro blue tetrazolium chloride reduction mediated by NADH and phenazine methosulfate," <i>Anal. Biochem.</i> , 176:170-174 [1989] |
| 63 | Voss <i>et al.</i> , "The role of enhancers in the regulation of cell-type-specific transcriptional control," <i>Trends Biochem. Sci.</i> , 11:287-289 [1986] |
| 64 | Walsh and Dixon, "Spectrum of mycoses," In Baron (ed.), <i>Medical Microbiology</i> , 4th edition, (Galveston, TX: University of Texas Medical Branch) pp. 919-925 [1996] |
| 65 | Warnock, "Fungal infections in neutropenia: current problems and chemotherapeutic control," <i>J. Antimicrob. Chemother.</i> , 41:95-105 [1998] |
| 66 | Warren and Hazen, " <i>Candida</i> , <i>Cryptococcus</i> , and other yeasts of medical importance," In Murray <i>et al.</i> (eds.), <i>Manual of Clinical Microbiology</i> , 7th edition, (Washington, DC: ASM Press) pp. 1184-1199 [1999] |
| 67 | Watzle and Tanner, "Cloning of the glutamine:fructose-6-phosphate amidotransferase gene from yeast," <i>J. Biol. Chem.</i> , 264:8753-8758 [1989] |
| 68 | White, "Antifungal drug resistance in <i>Candida albicans</i> ," <i>ASM News</i> 63:427-433 [1997] |
| 69 | White <i>et al.</i> , "Clinical, cellular, and molecular factors that contribute to antifungal drug resistance," <i>Clin. Microbiol. Rev.</i> , 11:382-402 [1998] |
| 70 | Winterburn and Phelps, "Purification and some kinetic properties of rat liver glucosamine synthetase," <i>Biochem. J.</i> , 121:701-709 [1971] |
| 71 | Zalkin, "Glucosamine-6-phosphate synthase," <i>Methods Enzymol.</i> , 113:278-281 [1985] |

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